

Dongkyun Kim

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

55
papers

521
citations

13
h-index

19
g-index

69
ext. papers

627
ext. citations

3.4
avg, IF

4.47
L-index

| # | Paper | IF | Citations |
|----|--|-----|-----------|
| 55 | An analysis of temporal scaling behaviour of extreme rainfall in Germany based on radar precipitation QPE data. <i>Natural Hazards and Earth System Sciences</i> , 2021 , 21, 1195-1207 | 3.9 | 3 |
| 54 | Complementary Modeling Approach for Estimating Sedimentation and Hydraulic Flushing Parameters Using Artificial Neural Networks and RESCON2 Model. <i>KSCE Journal of Civil Engineering</i> , 2021 , 25, 3766-3778 | 1.9 | 1 |
| 53 | A simple scheme to adjust Poisson cluster rectangular pulse rainfall models for improved performance at sub-hourly timescales. <i>Journal of Hydrology</i> , 2021 , 598, 126296 | 6 | 3 |
| 52 | An Algorithm of Spatial Composition of Hourly Rainfall Fields for Improved High Rainfall Value Estimation. <i>KSCE Journal of Civil Engineering</i> , 2021 , 25, 356-368 | 1.9 | 3 |
| 51 | Changing Spatial Structure of Summer Heavy Rainfall, Using Convection-Permitting Ensemble. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL090903 | 4.9 | 6 |
| 50 | Factors Influencing the Accuracy of Shallow Snow Depth Measured Using UAV-Based Photogrammetry. <i>Remote Sensing</i> , 2021 , 13, 828 | 5 | 3 |
| 49 | Comprehensive evaluation of machine learning models for suspended sediment load inflow prediction in a reservoir. <i>Stochastic Environmental Research and Risk Assessment</i> , 2021 , 35, 1805-1823 | 3.5 | 12 |
| 48 | Comprehensive Evaluation of Machine Learning Techniques for Hydrological Drought Forecasting. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2021 , 147, | 1.1 | 5 |
| 47 | A stochastic rainfall model that can reproduce important rainfall properties across the timescales from several minutes to a decade. <i>Journal of Hydrology</i> , 2020 , 589, 125150 | 6 | 12 |
| 46 | Determination of flood-inducing rainfall and runoff for highly urbanized area based on high-resolution radar-gauge composite rainfall data and flooded area GIS data. <i>Journal of Hydrology</i> , 2020 , 584, 124704 | 6 | 8 |
| 45 | Precipitation threshold for urban flood warning - an analysis using the satellite-based flooded area and radar-gauge composite rainfall data. <i>Journal of Hydro-Environment Research</i> , 2020 , 32, 48-61 | 2.3 | 7 |
| 44 | Antifouling effect of water-soluble phosphate glass frit for filtration plants. <i>Folia Microbiologica</i> , 2020 , 65, 363-370 | 2.8 | 1 |
| 43 | A hybrid stochastic rainfall model that reproduces some important rainfall characteristics at hourly to yearly timescales. <i>Hydrology and Earth System Sciences</i> , 2019 , 23, 989-1014 | 5.5 | 10 |
| 42 | Estimation of Maximum Daily Fresh Snow Accumulation Using an Artificial Neural Network Model. <i>Advances in Meteorology</i> , 2019 , 2019, 1-11 | 1.7 | 4 |
| 41 | Estimation of flow in various sizes of streams using the Sentinel-1 Synthetic Aperture Radar (SAR) data in Han River Basin, Korea. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2019 , 83, 101930 | 7.3 | 8 |
| 40 | Detection of land subsidence and its relationship with land cover types using ESA Sentinel satellite data: a case study of Quetta Valley, Pakistan. <i>International Journal of Remote Sensing</i> , 2019 , 40, 9572-9603 | 3.1 | 6 |
| 39 | Hydrological Drought Assessment of Energy-Based Water Deficit Index (EWDI) at Different Geographical Regions. <i>Advances in Meteorology</i> , 2019 , 2019, 1-11 | 1.7 | 3 |

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| 38 | Influence of Rain Gauge Density and Temporal Resolution on the Performance of Conditional Merging Method. <i>Korean Society of Hazard Mitigation</i> , 2019 , 19, 41-51 | 0.2 | 1 |
| 37 | Evaluation of Four GLUE Likelihood Measures and Behavior of Large Parameter Samples in ISPSO-GLUE for TOPMODEL. <i>Water (Switzerland)</i> , 2019 , 11, 447 | 3 | 3 |
| 36 | Advances in Remote Sensing to Understand Extreme Hydrological Events. <i>Advances in Meteorology</i> , 2019 , 2019, 1-2 | 1.7 | |
| 35 | The role of rainfall spatial variability in estimating areal reduction factors. <i>Journal of Hydrology</i> , 2019 , 568, 416-426 | 6 | 24 |
| 34 | A new experimental investigation into the effects of reinforcing mortar beams with superelastic SMA fibers on controlling and closing cracks. <i>Composites Part B: Engineering</i> , 2018 , 137, 140-152 | 10 | 38 |
| 33 | Let-It-Rain: a web application for stochastic point rainfall generation at ungaged basins and its applicability in runoff and flood modeling. <i>Stochastic Environmental Research and Risk Assessment</i> , 2017 , 31, 1023-1043 | 3.5 | 27 |
| 32 | Nanostructured ZnO films on stainless steel are highly safe and effective for antimicrobial applications. <i>Applied Microbiology and Biotechnology</i> , 2017 , 101, 2801-2809 | 5.7 | 11 |
| 31 | Radar polygon method: an areal rainfall estimation based on radar rainfall imageries. <i>Stochastic Environmental Research and Risk Assessment</i> , 2017 , 31, 275-289 | 3.5 | 4 |
| 30 | Detection of Land Subsidence due to Excessive Groundwater Use Varying with Different Land Cover Types in Quetta valley, Pakistan Using ESA-Sentinel Satellite Data 2017 , | | 5 |
| 29 | Monotonic and hysteretic pullout behavior of superelastic SMA fibers with different anchorages. <i>Composites Part B: Engineering</i> , 2017 , 108, 232-242 | 10 | 19 |
| 28 | A hierarchical Bayesian approach to the modified Bartlett-Lewis rectangular pulse model for a joint estimation of model parameters across stations. <i>Journal of Hydrology</i> , 2017 , 544, 210-223 | 6 | 15 |
| 27 | Integrated change detection and temporal trajectory analysis of coastal wetlands using high spatial resolution Korean Multi-Purpose Satellite series imagery. <i>Journal of Applied Remote Sensing</i> , 2017 , 11, 026030 | 1.4 | 2 |
| 26 | Application of copula functions to construct confidence intervals of bivariate drought frequency curve. <i>Journal of Hydro-Environment Research</i> , 2016 , 11, 113-122 | 2.3 | 12 |
| 25 | Regionalization of the Modified Bartlett-Lewis rectangular pulse stochastic rainfall model across the Korean Peninsula. <i>Journal of Hydro-Environment Research</i> , 2016 , 11, 123-137 | 2.3 | 13 |
| 24 | Bond Resistance of L-Shaped Shape Memory Alloy Fibers in Mortar. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 11500-11504 | 1.3 | 5 |
| 23 | Development of flood inundation area GIS database for Samsung-1 drainage sector, Seoul, Korea. <i>Journal of Korea Water Resources Association</i> , 2016 , 49, 981-993 | | 7 |
| 22 | Mesoscale Spatial Variability of Linear Trend of Precipitation Statistics in Korean Peninsula. <i>Advances in Meteorology</i> , 2016 , 2016, 1-15 | 1.7 | 4 |
| 21 | 1/f noise analyses of urbanization effects on streamflow characteristics. <i>Hydrological Processes</i> , 2016 , 30, 1651-1664 | 3.3 | 4 |

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| 20 | Spatial composition of AMSR2 soil moisture products by conditional merging technique with ground soil moisture data. <i>Stochastic Environmental Research and Risk Assessment</i> , 2016 , 30, 2109-2126 | 3.5 | 8 |
| 19 | Modeling of daily rainfall sequence and extremes based on a semiparametric Pareto tail approach at multiple locations. <i>Journal of Hydrology</i> , 2015 , 529, 1442-1450 | 6 | 17 |
| 18 | Best-fit distribution and log-normality for tsunami heights along coastal lines. <i>Stochastic Environmental Research and Risk Assessment</i> , 2014 , 28, 881-893 | 3.5 | 9 |
| 17 | Effect of confining pressure due to external jacket of steel plate or shape memory alloy wire on bond behavior between concrete and steel reinforcing bars. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 9657-61 | 1.3 | 2 |
| 16 | Simplified Flood Inundation Mapping Based On Flood Elevation-Discharge Rating Curves Using Satellite Images in Gauged Watersheds. <i>Water (Switzerland)</i> , 2014 , 6, 1280-1299 | 3 | 25 |
| 15 | A river environment index for Korean national rivers: rationale, methods and application. <i>Water Policy</i> , 2014 , 16, 481-500 | 1.6 | 3 |
| 14 | A Poisson Cluster Stochastic Rainfall Generator That Accounts for the Interannual Variability of Rainfall Statistics: Validation at Various Geographic Locations across the United States. <i>Journal of Applied Mathematics</i> , 2014 , 2014, 1-14 | 1.1 | 6 |
| 13 | Efficient Uncertainty Analysis of TOPMODEL Using Particle Swarm Optimization. <i>Journal of Korea Water Resources Association</i> , 2014 , 47, 285-295 | | 1 |
| 12 | Applicability of a Space-time Rainfall Downscaling Algorithm Based on Multifractal Framework in Modeling Heavy Rainfall Events in Korean Peninsula. <i>Journal of Korea Water Resources Association</i> , 2014 , 47, 839-852 | | 3 |
| 11 | Effect of the inter-annual variability of rainfall statistics on stochastically generated rainfall time series: part 1. Impact on peak and extreme rainfall values. <i>Stochastic Environmental Research and Risk Assessment</i> , 2013 , 27, 1601-1610 | 3.5 | 17 |
| 10 | On the spatial pattern of the distribution of the tsunami run-up heights. <i>Stochastic Environmental Research and Risk Assessment</i> , 2013 , 27, 1333-1346 | 3.5 | 6 |
| 9 | Effect of the inter-annual variability of rainfall statistics on stochastically generated rainfall time series: part 2. Impact on watershed response variables. <i>Stochastic Environmental Research and Risk Assessment</i> , 2013 , 27, 1611-1619 | 3.5 | 11 |
| 8 | Regionalization of the Modified Bartlett-Lewis Rectangular Pulse Stochastic Rainfall Model. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2013 , 24, 421 | 1.8 | 18 |
| 7 | Observation Method for Estimating Future Scour Depth at Existing Bridges. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2013 , 139, 1165-1175 | 3.4 | 9 |
| 6 | The Application of the Poisson Cluster Rainfall Generation Model to the Flood Analysis. <i>Journal of Korea Water Resources Association</i> , 2013 , 46, 439-447 | | 7 |
| 5 | Development and Application of an Storm Identification Algorithm that Conceptualizes Storms by Elliptical Shape. <i>Korean Society of Hazard Mitigation</i> , 2013 , 13, 325-335 | 0.2 | 3 |
| 4 | Relative Importance of the Different Rainfall Statistics in the Calibration of Stochastic Rainfall Generation Models. <i>Journal of Hydrologic Engineering - ASCE</i> , 2012 , 17, 368-376 | 1.8 | 21 |
| 3 | Enhanced speciation in particle swarm optimization for multi-modal problems. <i>European Journal of Operational Research</i> , 2011 , 213, 15-23 | 5.6 | 33 |

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| 2 | Estimation of Average Rainfall Areal Reduction Factors in Texas Using NEXRAD Data. <i>Journal of Hydrologic Engineering - ASCE</i> , 2008 , 13, 438-448 | 1.8 | 27 |
| 1 | Estimation of rainfall threshold for flood warning for small urban watersheds based on the 1D2D drainage model simulation. <i>Stochastic Environmental Research and Risk Assessment</i> ,1 | 3.5 | 0 |